

International Office, Stellenbosch University

Guide to undergraduate courses in English at Stellenbosch University

INTRODUCTION

This booklet is intended to provide international students with information regarding undergraduate courses available in English at Stellenbosch University. **Note:** All courses listed are subject to change and availability, and selection is subject to pre-requisite satisfaction, where applicable, and timetabling. Queries on the availability of courses may be directed to the International Office:

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Faculty of Arts and Social Sciences

Department of African Languages

FIRST SEMESTER (February - June)

INTRODUCTORY STUDY OF AFRICAN LANGUAGES 114 (3 Lectures; 1 Seminar)

Classification of the African languages; language planning and language policy for the African languages; communication analysis of selected African languages in a range of communication contexts; comparative study of literature from selected African languages: a choice of genres; comparative study of linguistics from selected African languages; comparative study of language and culture phenomenon in selected African languages.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

INTRODUCTION TO COMMUNICATION IN XHOSA 114 (3 Lectures; 1 Tutorial)

The classification of the African languages in South Africa; the communication skills of speaking, listening comprehension, reading and writing in a socio-cultural context; cultural perspectives and language-related cultural conventions relevant to basic communication in Xhosa; the grammar of Xhosa relevant to the learning of basic communication skills.

Credits: 12 SA Credits / 6 ECTS credits / 3 US credits

SECOND SEMESTER (July - November)

CONTINUED INTRODUCTORY STUDY OF AFRICAN LANGUAGES 144 (3 Lectures; 1 Seminar)

Communication analysis of selected African languages in a range of communication contexts; comparative study of language and cultural phenomena in selected African languages; comparative study of literature of selected African languages: a choice of genres; comparative study of linguistics of selected African languages

Prerequisite module: African Languages 114

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

INTRODUCTION TO COMMUNICATION IN XHOSA 144 (3 Lectures; 1 Tutorial)

The communication skills of speaking, listening comprehension, reading and writing in socio-cultural context; cultural perspectives and language-related cultural conventions relevant to basic communication in Xhosa; the grammar of Xhosa relevant to the learning of basic communication skills.

Prerequisite module: Basic Xhosa 114

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Department of Drama

General Information for prospective Drama students:

- Classes for all senior Theatre Arts students (Level 2, Level 3) begin every year *one week* before the general commencement of classes for senior students, i.e. on the Monday of the week during which first-year students first arrive at the University.
- No student will be permitted to join the Theatre Arts or Theatre Skills courses late.
- The pass mark for Theatre Arts and Theatre Skills is 50% average for all the subsections of the subject jointly, with a minimum of 40% in any one of the subsections of the subject as an additional pass requirement. A student who does not obtain the required sub-minimum in one or more of the subsections thus does not pass the course, even though the average mark for the course as a whole is above 50%.
- Because a teamwork approach is adopted in presenting the Theatre Arts and Theatre Skills courses, class attendance is essential. Therefore students who miss more than 10% of the practical classes, even for medical or other acceptable reasons, are normally not permitted to proceed with the course.
- Because the Theatre Arts and Theatre Skills courses entail extensive physical involvement by the student, any students with a medical condition that could prevent them from participating regularly in movement, acting and/or Theatre Arts classes, must indicate this *prior to* registration, with supporting documentation from a medical practitioner, for consideration by the Department.
- Students in their second and third years may be obliged to remain in Stellenbosch during the two short vacations as well as for short periods during the winter and summer vacations.

FULL YEAR (February - November)

Course: *Theatre Arts*

Theatre Arts can be taken only as part of the BDrAm degree programme and in combination with Theatre Studies and Theatre Skills. Theatre Arts entails training in the integrative techniques necessary to produce a theatre performance. The course involves theoretical as well as practical work, and attendance at and participation in theatre productions and other performances are an inherent part of the course.

For Theatre Arts students choose one of the following four options:

Choice A: An acting programme (stage and media)

Choice B: A technical and stage management programme

Choice C: A teaching-oriented programme (acting)

Choice D: A teaching-oriented programme (technical)

The options for Theatre Arts and Theatre Skills must correspond. These study directions are continued on Advanced Level.

Level 1:

INTRODUCTION TO ACTING AND STAGE SKILLS 178 (3 Lectures; 8 Practicals)

Basic skills in acting and improvisation; introduction to developing the technical skills required for stage presentation; basic theoretical knowledge of the above aspects; participation in productions only as a member of the technical team

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Level 2:

Option A or C:

ACTING AND PRODUCTION 278 (3 Lectures; 10 Practicals)

Theories of acting of the leading Western theatre practitioners; film and microphone; acting skills (continued); basic skills for alternative theatre forms such as puppetry, cabaret and physical theatre; participation as actor in public performances

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

Option B or D:

THEATRE DESIGN AND PRODUCTION 288 (3 Lectures; 6 Practicals)

Technical aspects of stage productions and alternative forms of theatre; technical skills for stage productions and alternative forms of theatre; practical technical work for public performances

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

Level 3:

Option A or C:

ACTING AND PRODUCTION 379 (4 Lectures; 6 Practicals)

Continuation of contents as for 278

Credits: 48 SA credits / 24 ECTS credits / 6 US credits

Option B or D:

THEATRE DESIGN AND PRODUCTION 389 (4 Lectures; 6 Practicals)

Theory of design; practical exercise in the skills required for technical aspects and design of stage production; technical applications and design for public stage productions and class projects

Credits: 48 SA credits / 24 ECTS credits / 6 US credits

Course: Theatre Practice

Theatre Practice entails training in the basic principles of theatre management and marketing. It is also an independent module that can be taken as part of other programmes.

Level 2:

THEATRE MANAGEMENT AND MARKETING 298 (3 Lectures; 5 Practicals)

Introductory theory of theatre management and marketing of the theatre and performing arts; analysis of the function of the performing arts in society; basic concepts of market research, liaison and marketing; information on copyright and performing rights (prescriptions, procedures, relevant organisations); theoretical exercises in theatre budgeting; practical projects linked to public theatre productions and class work projects

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

Course: Theatre Skills

Theatre Skills can be taken only as part of the BDrAm degree programme and in combination with Theatre Studies and Theatre Arts.

Theatre Skills provides training in the key techniques required for producing a theatre performance. The course entails both theoretical work and practical training in verbal and non-verbal communication, voice development, movement and technical aspects such as design and management. Attendance at and participation in theatre productions as well as other performances form an inherent part of the course.

Once they have completed the basic level (first year, Level 1) students in Theatre Skills choose one of the following four directions to be taken at Intermediate Level (Level 2), corresponding to their choice for Theatre Arts:

Choice A: An acting course (stage and media)

Choice B: A technical and stage management course

Choice C: A course aimed at teaching (Acting)

Choice D: A course aimed at teaching (Technical aspects)

These study directions are continued on the Advanced Level (Level 3)

Level 1

THEATRE TECHNIQUES 178 (3 Lectures; 6 Practicals)

Practical exercises to promote speech, voice development and movement skills; basic theory of speech, voice development and movement

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Level 2

Option A or C:

SPEECH AND MOVEMENT 278 (3 Lectures; 6 Practicals)

Advanced speech, voice and movement theory; practical exercises and projects to develop skills in stage speech, general voice development and movement

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

Option B:

STAGE MANAGEMENT AND MEDIA TECHNIQUES 288 (3 Lectures; 6 Practicals)

Theory of technical aspects of the media (radio and television) and stage management; practical class exercise in stage management; participation in stage management for public theatre productions

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Level 3

Option A or C:

SPEECH AND MOVEMENT 378 (2 Lectures; 6 Practicals)

Continuation of contents as for 278

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Option B:

STAGE MANAGEMENT AND MEDIA 388 (2 Lectures; 6 Practicals)

Continuation of contents as for 288

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Course: Theatre Studies

Theatre Studies can be taken as an independent module in the BDram, the BA (Language and Culture) and the BA (Humanities) programmes.

Theatre Studies entails a theoretical study of the nature, history and techniques of drama, theatre, dance, radio, television and film. Students are not expected to do any practical work, although

attendance at theatre productions and other performances is an inherent part of the course as these activities form part of the study material.

FIRST SEMESTER (February - June)

Level 1

INTRODUCTION TO WESTERN THEATRE AND PRINCIPLES OF TEXT STUDY 114 (3 Lectures; 1 Practical)

Introduction to basic concepts in theatre studies; introduction to techniques and methods of textual analysis and interpretation through a study of selected plays in context as part of a survey of the history of the theatre and of theatre conventions and conditions of Western drama and theatre from the Greeks to Renaissance and Shakespeare

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Level 2

TEXTUAL ANALYSIS 212 (1.5 Lectures; 1 Seminar)

A thematic study of texts in context with reference to productions, visual material and published texts, including South African material

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

THEATRE HISTORY: THEORY AND FORMS OF DRAMA AND THEATRE 222 (1.5 Lectures; 1 Seminar)

Introduction to theory of drama and theatre; principles of theatre studies and theatre research; introduction to the major genres of drama and theatre

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

Level 3

TEXTUAL ANALYSIS: MEDIA AND FILM 314 (2 Lectures; 1 Seminar)

Introduction to the theory of the mass communication media (including radio, television, etc); critical analysis of diverse media texts; introduction to film studies and history of film, including South African media and film practice

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

HISTORY AND NATURE OF NON-WESTERN THEATRE 324 (2 Lectures; 1 Seminar)

A study of the major characteristics of Eastern theatre, with reference to some examples; a study of the major characteristics of African theatre, with reference to some examples

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

SECOND SEMESTER (July - November)

Level 1

CONTINUED STUDY OF WESTERN THEATRE AND PRINCIPLES OF TEXT STUDY 144 (3

Lectures; 1 Practical)

Introduction to techniques and methods of textual analysis and interpretation through examining selected plays in context as part of a historical survey of theatre, theatre conventions and theatre conditions of Western drama and theatre from Shakespeare until the twentieth century

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Level 2

TEXTUAL ANALYSIS 242 (1.5 Lectures; 1 Seminar)

A thematic study of texts in context with reference to productions, visual material and published texts, including South African material (continued)

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

THEATRE HISTORY: THEORY AND FORMS OF DRAMA AND THEATRE 252 (1.5 Lectures; 1 Seminar)

Survey of the main trends in drama, theatre, media and performance theory and research

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

Level 3

TEXTUAL ANALYSIS: MEDIA AND FILM 344(2 Lectures; 1 Seminar)

Continuation of study of film theory and analysis with reference to selected films, including films from Africa and South Africa

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

HISTORY AND NATURE OF SOUTH AFRICAN THEATRE 354 (2 Lectures; 1 Seminar)

Survey of the main trends in South African theatre through a study of texts in context

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Department of English

The English Department welcomes International students to its classes, and will try to accommodate them wherever possible. The following gives some information about the nature of the courses offered in the Department, and lists those courses most likely to appeal to International students (i.e. those courses which deal directly with material and texts related to Southern Africa).

Details of other courses offered are contained in the description beneath of English 278 (second-year English) and English 318 (first semester) and English 348 (second semester). Both are third-year level English). International students may take courses from either or both years. Those who qualify may also take postgraduate courses offered by the Department. Details of these are available in the postgraduate prospectus. All of this information is also readily available on our department webpage: www.sun.ac.za/english

Course information and readings for some of these courses will also be available on WebCT

TWO TEACHING FORMATS:

❖ **Electives** – Elective courses are taught to a seminar group (usually not more than 15) of students who elect to take that particular course. The seminar group format is designed to encourage discussion and interaction among students and active participation is expected. Students in these courses do at least two pieces of written work for their tutor, and write a formal research essay of about 3000 words. This must be handed in to the tutor and is marked by him or her. **Attendance at electives is compulsory.** Students whose attendance is unsatisfactory will be regarded as 'incomplete'. All written work set by the seminar tutor must also be completed.

In English 318 and 348 the elective course meets once a week (for 14 weeks) for a double period (i.e. two 50-minute periods).

In English 278 the electives are offered in the second semester. These meet once a week (for 14 weeks) for a single period (50 minutes)

❖ **Lectures** – Lecture courses are taught by a lecturer to a fairly large group of students who are expected to read the texts prescribed for those particular courses. No written work is required, other than the writing of a formal test question at the end of the course. The university has set times in mid-semester and at the end of each semester for tests.

Each lecture period is 50 minutes long

CREDITS ARE AWARDED IN THE FOLLOWING MANNER:

❖ *Credits for each English 278 elective*

8 SA credits / 4 ECTS credits / 2 US credits

❖ *Credits for each English 318 and 348 elective*

12 SA credits / 6 ECTS credits / 3 US credits

❖ *Credits for each lecture*

12 SA credits / 6 ECTS credits / 3 US credits

ENGLISH 278

N.B. English 278 electives are only offered in the second semester.

FIRST SEMESTER (February – June)
LECTURES

First Term: Renaissance Explorations

This component introduces students to the sixteenth and early seventeenth literature. Focussing on the influence of humanist learning and on the exposure of European society to cultural difference, the component seeks to show that these influences constituted both a challenge to, and a stimulus for, practices of cultural authority.

Second Term: The Restless Enlightenment

This component introduces student to seventeenth and eighteenth century English literature. Focussing on the Enlightenment ideal of the sovereign rational subject, it explores how this ideal is interrogated in texts that reflect thematically and structurally on the ambiguities of subjectivity.

SECOND SEMESTER (July – November)
LECTURES

Third Term: The making of South African Literature

This component introduces students to the beginnings of South African Literature in English. Focussing on both pre-colonial oral forms and colonial written forms of literary practice, it traces the continuities and disjunctions of received traditions.

Fourth Term: Re-inventing Africa

This component presents students with the spectrum of self-representations of Africa/ns, ranging from traditional oral compositions and evocations of the colonial encounter to the critical investigations of modern African societies, citizens and psyches.

LECTURE TIMES

Mondays from 14:00-14:50
Tuesdays from 11:00-11:50
Thursdays from 16:00-16:50

ALL LECTURES IN THE ARTS BUILDING, ROOM 230

ENGLISH 318 (is a first semester course)

N.B. English 318 is a first semester course and English 348 is a second semester course

FIRST SEMESTER (February – June)
LECTURES

First Term: Renaissance Explorations

Second Term: The Modernist/Postmodernist Condition

NB. The lecture course for each term has been designed as a coherent unit. Further information about the content of the lecture can be gained from looking at the lecture program and consulting the prescribed texts for each semester.

FIRST SEMESTER (February – June)
ELECTIVES

English III students are reminded that a number of optional courses (generally referred to as 'electives') are taught in each semester. To give students time to think about their choices, a list of electives with brief course outlines is given below. Students need to register for these courses at the beginning of the semester. There is a limit (usually of 12 people) on the numbers of students per course, so register early to avoid disappointment. The regular times at which each elective is to be offered will appear on a list to be posted on the notice board at the beginning of the semester. **Note that third-year electives are held in a double period (two 50 minute periods).**

N.B. Students wishing to enrol in a seminar group must put their names on the lists provided outside the secretary's office (Room 574 in the Arts Building). The times at which the seminar takes place have still to be determined.

MODERNISM AND THE SHORT STORY (Rob Gaylard)

The short story has been described as "the paradigmatic form of the early twentieth century, best able to explore its fragmented and fragmentary sensibility." This course explores the work of two very different writers, the American Ernest Hemmingway, and the New Zealand-born Katherine Mansfield, whose innovative use of the short story form has been a major influence on subsequent writers. We look Hemmingway's emergence as an original and highly influential writer of short stories, and focus on these two early connections, *In Our Time* (1925) and *Men Without Women* (1928). *In Our Time* is currently out of print (some stories will be supplied); students will be expected to buy copies of *Men Without Women*.

IN the second part of the course we examine a selection of Katherine Mansfield's stories and explore her indebtedness to symbolism and modernism, as well as the presence of recurring themes and preoccupations in the stories. Students will be able to explore the extent to which issues of gender and identity are present in the text or subtext of the stories of both writers. Student input and participation is, of course, a requirement in the course.

Texts

Hemingway. *Men Without Women*. Arrow 1994.
Mansfield. *Selected Stories*. OUP 2002.

SOUTH AFRICA IN THE LITERARY IMAGINATION (Rob Gaylard)

This course explores the intersection of the political and personal through a collection of stories (specially compiled for this course), and through three plays by well-known South African dramatists (Mhlope, Fugard, and Kani). The collection of stories provides various perspectives on what it is like to live (and write) in a divided and polarized society. How can a writer function in a society where, as Gordimer puts it, 'any attempt to present a totality of human experience...is subverted before he [or she] even puts down a word'? The plays by Mhlope (*Have you seen Zandile?*) and Fugard (*Master Harold and the Boys*) are partly autobiographical: both explore deeply personal issues, but these are (inevitably) grounded in the racial and cultural configuration of South African society. Kani's *Nothing but the Truth* presents a poignant and searching exploration of the predicament of the ordinary man caught up in the political turmoil of his time- and it does so against the implicit backdrop of the Truth and Reconciliation Commission.

Texts

A Land Apart? [short stories – text to be supplied]
Mhlope. *Have you seen Zandile?* U of Natal P. 2002.
Fugard. *Master Harold and the Boys*. OUP, 1993.
Kani. *Nothing but the Truth*. Wits UP, 2002.

FICTION AND AUTOBIOGRAPHY IN COETZEE (Dirk Klopper)

[Description will follow]

AFRICAN TRAVEL WRITING (Dirk Klopper)

Nineteenth century travel writing about Africa was concerned not only with the description of territories previously unknown to European experience, but also with the discursive mastery of the imaginary space of the other. Despite a century of colonial occupation of Africa, the process of attempted mastery persists in twentieth century travel writing. It is as if political and commercial control of African territories did not involve a corresponding imaginative mastery. Africa continues to fascinate by virtue of its inscrutability, its resistance to the discursive and imaginative assimilation, its persistent otherness. In this elective we will study a selection of twentieth century African travel writings, examining such issues as the position of the traveler, in relation to what is described, travel

and the making of identity, the construction of the other in a dialectic negation, and the border crossings as a form of translation and transgression.

Texts

Graham Greene. *Journey without Maps*. Vintage 2002
Laurens van der Post. *Venture to the Interior*. Vintage 2002
Shiva Naipaul. *North of SouthAn: African Journey*. Penguin Classics 1997
Paul Theroux. *Dark Star Safari: Overland from Cairo to Cape Town*. Penguin, 2003

AMERICAN BORDERLANDS (Daniel Roux)

Gloria Anzaldúa writes: "Borderlands are physically present wherever two or more cultures edge each other, where people of different races occupy the same territory, where under, lower middle and upper classes touch, where the space between two individuals shrinks with intimacy." In this course, we will look at a range of texts written by Americans who live on geopolitical and cultural borders and examine the ways in which border identities are contested and en/gendered in contemporary American literature.

Texts

Gloria Anzaldúa. *Borderlands/La Frontera*. Aunt Lute Book, 1999.
Maxine Hong Kingston. *The woman Warrior*. Picador, 1881.
Toni Morrison. *Beloved*. Vintage, 2004.
Film: John Sayles. *Lone Star*.

GENDER SHIFTS IN SCIENCE FICTION (Dr R Goodman)

This course deals with three science fiction texts by women who grapple with gender issues, using the provisional quality of science fiction to suggest fictional alternatives to present gender role models. Ursula Le Guin's *The Left hand of Darkness*, deconstructs the familiar relationships between men and women against the background of an intensely challenging political debate concerning utopia. Marge Piercy's *Woman on the Edge of Time* explores our society's attitude to marginal figures through the person of a woman who is unjustly held in a hellish mental hospital - but who 'escapes' increasingly into an alternative world which offers some kind of hope for humankind's future. *The Female Man* by Joanna Russ is a radical view of women's place in the world which draws the battle-lines between genders very clearly. This text will be discussed in conjunction with the video of *Tank Girl*.

Texts:

Piercy. *Women on the edge of Time*. Woman's Press, 1987
Le Guin. *Left hand of Darkness*. Virago Press, 1997.
Russ. *The female man*. Woman's Press, 1985.

FROST.STEVENS/WILLIAMS' VISIONS OF THE REAL (Dr Dawid de Villiers)

In the period between the two world wars—a period marked by a significant shift in the way the Western world viewed itself and its destiny, as well as its relation to tradition—a number of remarkable and influential poets emerged in America. This course aims to provide an introduction to the work of three highly original poets, namely Robert Frost, Wallace Stevens, and Williams Carlos

Williams, and examine their relation to the American canon in general. More specifically, our discussion and analysis of their poems will take account of the ways in which they rethink, explore and express the relationship between individual creative imagination and (socio-historical) reality, thereby attempting to work out some sense of man's place in a universe that to many had begun to seem devoid of all reason and purpose.

The reading material for this course will be provided.

**SECOND SEMESTER (July – November)
LECTURES**

Third Term: Postcolonial Perspectives

Fourth Term: South African writing with the Interregnum

**SECOND SEMESTER (July – November)
ELECTIVES**

1. SOUTHERN AFRICAN WOMEN WRITERS: Madness, Trauma and Healing (M. Samuelson)
2. RE-ENACTING TRUTH AND RECONCILIATION (M. Samuelson)
3. WAR AND CIVIC LIFE: LITERARY EVALUATIONS (A. Gagiano)
4. WOMEN WRITERS INTERROGATING EMPIRE (A. Gagiano)
5. SOUTH AFRICAN LITERARY IMAGINATION (R. Gaylard)
6. WOMEN AND MODERNISM (L. Graham)
7. MEMORY, REFLECTION AND ALIENATION IN THE NOVELS OF KAZUO ISHIGURO (T. Slabbert)
8. CREATIVE WRITING (Name to Follow)

Department of General Linguistics

FULL YEAR (February – November)

APPLIED ENGLISH LANGUAGE STUDIES 278 (2 Lectures; 1 Seminar)

The module focuses on aspects of English language in use on both a macro and a micro level. The macro level includes a linguistic perspective on

1. the cultural politics and social consequences of English use globally but particularly in Africa;
2. variation and change in different Englishes;
3. phenomena resulting from the contact of English with other languages; and
4. properties of oral and written English.

The micro level includes a linguistic perspective on

1. making meaning in English; and
2. properties of English use in a multilingual and multicultural working environment, and communication, courtroom communication, cyberspeak, drugspeak, surferspeak,.

Throughout the module students are introduced to the different principles and methods of conducting language studies.

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

FIRST SEMESTER (February – June)

APPLIED ENGLISH LANGUAGE STUDIES 318 (3 Lectures; 2 Seminars)

The module focuses on the principles of language acquisition with specific reference to English.

The module includes a study of

1. the grammatical structure of English;
2. the acquisition of English as a first language by children;
3. the phenomenon of late acquisition of English as a first language;
4. the acquisition of English as a second (or additional) language by children and adults;
5. research methods in the collection, coding and analysis of acquisition data; and
6. capita selecta which contributes to the realisation of the specific outcomes of the module.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

SECOND SEMESTER (July – November)

APPLIED ENGLISH LANGUAGE STUDIES 348 (3 Lectures; 2 Seminars)

The module focuses on the principles of variation and change in English. The module includes a study of

1. the principles of language change, with specific reference to English;

2. the phenomenon of variation in the English acquired by different second-language learners;
3. the phenomenon of the attrition and loss of language with specific reference to English;
4. research methods in the collection, coding and analysis of data; and
5. capita selecta which contribute to the realisation of the specific outcomes of the module.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Department of Geography and Environmental Studies

FIRST SEMESTER (February – June)

INTRODUCTION TO GEOGRAPHICAL INFORMATION SYSTEMS 324 (2Lectures; 2Practicals)

Definition and the technical overview of GIS; principles of spatial data structures; South African coordinate systems and projection systems; input, capturing, manipulation, analysis and presentation of geodata; integration and exchange of South African national data sets (e.g. census data, topographic data, research) ; practical GIS application : South African case studies (e.g. decision support for socio-economic and physical environment problems).

(No examination, class mark serves as final mark)

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Department of History

FIRST SEMESTER (February – June)

Course in the Department of History are taught in the T-option. This means that all lectures are taught 50% in Afrikaans and 50% in English; tests, assignments and exams can be written in English or Afrikaans; and all class notes will be available in both languages.

INTRODUCTION TO THE MAIN GLOBAL PATTERNS AND DEVELOPMENTS IN HISTORY 114 (3 Lectures; 1 Tutorial)

Nomadic societies; agriculture revolution and the emergence of established societies; the development of complex societies; the emergence of modernity and the industrial revolution; historical construction of the modern globalising world.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

KEY PROCESSES IN THE MAKING OF WESTERN HISTORY 214 (3 Lectures; 1Tutorial)

State formation, the Renaissance and revolutions; origins of the modern state; the Renaissance as cultural phenomenon; origins, dynamics and impact of historical revolutions; wealth and poverty in

Western history; changing views and attitudes; perspectives on systems such as socialism, capitalism and communism; dimensions of the culture of wealth and poverty.

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

WARS, DECOLONISATION AND GLOBALISATION 318 (4 Lectures; 2 Tutorials)

International relations and cultural change; the social and cultural dimensions of the First World War; the outbreak, course and aftermath of the Second World War; social and cultural trends: the sixties; ecological problems in historical perspective; the Cold War; globalization in historical and cultural perspective; colonial liberation and nation building in the 20th century; the end of the formal empire; independence movements in Africa and India; new states; cultural dimensions of independence: the search for a "pure" African culture in a globalising world; Africa in a globalising world.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

META DIMENSIONS OF HISTORICAL UNDERSTANDING 324 (2 Lectures)

Manifestations of historical consciousness; different types of historical writing; schools of historiography in South Africa; the nature of historical research.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

SECOND SEMESTER (July - November)

SURVEY OF SOUTH AFRICAN HISTORY 144 (3 Lectures; 1 Tutorial)

Debates on the settlement of population groups in South Africa; clashes in the interior: historical significance of 19th century migrations; the mineral revolution and its impact on modern South Africa; Afrikaner nationalism as a historical factor; segregation and apartheid; black nationalism and politics in the 20th century; South Africa and the outside world.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

AFRICA AND SOUTH AFRICA: COLONIALISATION AND THE REARRANGEMENT OF SOCIETIES 244 (3 Lectures; 1 Tutorial)

Africa and the West in the 19th century: colonial policies in Africa; the political, cultural and economic impact of the colonisation of Africa in the 19th century. South Africa in the 18th and 19th centuries: the political and cultural dynamics of 18th- and 19th- century Cape societies; the establishment of new black empires and white republics in the interior in the 19th century; the mineral revolution: the making of a new political and cultural social order.

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

SOUTH AFRICA IN THE 20TH CENTURY 348 (4 Lectures; 2 Tutorials)

Perspectives on the Anglo-Boer War; wealth and poverty as persistent factors in 20th century South Africa; cultural and political dimensions of the rise and disintegration of Afrikaner nationalism; perspectives on apartheid; the growth and dynamics of black political organisations and the change

in power relations in 1994; women and change in South African society; American cultural influences on black and white South Africa in historical perspective.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Department of Information Science

FIRST SEMESTER (February - June)

THE KNOWLEDGE ECONOMY AND SOCIETY 114 (3 Lectures)

An overview of the rise and character of the phenomenon of the knowledge economy and society; introduction to distinctive concepts like the global information system, knowledge work and intellectual capital; introduction to selected socio-theoretic interpretations of this phenomenon, in particular the work of Manuel Castells; the impact of technological factors on the origin and character of this phenomenon.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

SECOND SEMESTER (July - November)

BASIC CONCEPTS AND PROBLEMS IN SOCIO-INFORMATICS 144 (3 Lectures; 1 Practical)

Introduction to information organisation and development; information and development in Africa; study of the principle policy choices in various parts of the world; survey of the policy development of the European Union and NEPAD with regard to the knowledge economy and society; survey of the information and communication industry; introduction to the study of the human-computer interaction; introduction to ethical questions of the knowledge economy and society.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

DECISION-MAKING AND VALUES IN THE KNOWLEDGE ECONOMY AND SOCIETY 144 (3 Lectures)

Study of the most important contemporary megatrends related to the knowledge economy and society, and the impact of these trends on the problem and practice of decision-making; introduction to the value questions following from the emergence of the knowledge economy and society, in particular the value system of globalisation; introduction to the *European Values Survey* and the *World Values Survey*

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Department of Modern Foreign Languages

FULL YEAR (February - November)

Course: *German*

Notes

1. **German 178** is offered for beginners; **no prior knowledge of German is required**. The module is designed to provide *basic intercultural communication skills*. It enables students to understand, speak, read and - to a lesser degree - write contemporary German in everyday situations which includes a basic knowledge of present day situation in the German speaking countries.

German 188 makes special provision for **students who passed German in grade 12** or who are in possession of an equivalent qualification. Students proceed from German 188 to German 278. This route is known as "German Higher".

2. Students who passed German First Language in grade 12 with a B-symbol or higher, can be directly admitted to **German 288** - provided that they pass a special admission examination during the first two weeks after the start of classes in February. To comply with the credit requirements for a BA, such students must take another language or General Linguistics on first year level.

3. The second and third year courses lead to *advanced proficiency in intercultural communication*. Like the first year courses, they focus on the present day situation, but they include their historical dimension. The emphasis falls on students' abilities:

a) to understand and to use texts (in the extensive meaning of the term) by way of contrasting cultures, which requires, among other things, an insight into communication processes an understanding of the basic principles of text analysis, a critical awareness of the differences between source and target culture;

b) to demonstrate the above skill orally and in writing. Self-tuition courses and computer modules are provided to improve and enhance the acquired knowledge, insight and skills.

4. Students who perform particularly well in German 278 may sit for the *Zertifikat Deutsch (ZD)* examination of the Goethe Institute.

In their third year students' language skills are developed up to the level of the *Zentrale Mittelstufenprüfung (ZMP)* examination of the Goethe Institute, which can be written at predetermined dates set by the Department.

5. Continuous assessment is used in all undergraduate courses.

INTRODUCTION TO THE GERMAN LANGUAGE AND CULTURE 178 (3 Lectures; 1 Tutorial; 1 Practical) [for students **without** German in Grade 12]

Introductory language study; introduction to contemporary culture on the basis of selected topics; analysis of texts related to these topics.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

20th CENTURY GERMAN LANGUAGE, LITERATURE AND CULTURE 188 (3 Lectures) [for students **with** German in Grade 12]

A cultural-historical overview of the period on the basis of selected topics; analysis of texts related to these topics; intermediate language studies

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

INTERMEDIATE STUDY OF THE GERMAN LANGUAGE, LITERATURE AND CULTURE 278 (3 Lectures; 1 Practical)

Continued language study; basic concepts and principles of German as a foreign language; comparative 'country-knowledge', based on selected topics; analysis of texts related to these topics.

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

GERMAN LANGUAGE, LITERATURE AND CULTURE FROM THE 18TH CENTURY TO THE PRESENT 288 (3 Lectures) [for students who have passed German 188]

A cultural-historical overview of the period on the basis of selected topics; analysis of texts related to these topics; advanced language study.

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

ADVANCED STUDY OF THE GERMAN LANGUAGE AND CULTURE 379 (2 Lectures; 2 Seminars)

Advanced language and cultured studies by means of a variety of tests and themes

Credits: 48 SA credits / 24 ECTS credits / 6 US credits

ADVANCED STUDY OF GERMAN LITERATURE AND CULTURE 389 (3 Lectures, 1 Practical)

Advanced study of Literature including film and media; Advanced study of Culture; Advanced study of Language.

Credits: 48 SA credits / 24 ECTS credits / 6 US credits

Course: *French*

Notes

1. **French 178** is offered for beginners; **no prior knowledge of French is required**. The module is designed to provide basic intercultural communication skills. It enables students to understand, speak, read and, to a lesser degree, write contemporary French in everyday situations, which includes a basic knowledge of the present-day situation in France.
French 188 makes special provision for **students who passed French in Grade 12** or who, in the opinion of the Department, have reached an equivalent standard.
2. The second- and third-year courses lead to advanced proficiency in intercultural communication. Like the first-year courses, they focus on the present-day situation, but also include its historical dimension. The emphasis falls on students' abilities

a. to understand and to use texts (in the extensive meaning of the term) by way of contrasting cultures, which requires, among other things, an insight into communication processes; an understanding of the basic principles of text analysis; a critical awareness of the differences between source and target culture; and

b. to demonstrate the above skills both orally and in writing. Self-tuition courses and computer modules are provided to improve and enhance the acquired knowledge; insight and skills.

3. At the end of the year students may take the respective DELF/DALF examinations of the Alliance Française.
4. Continuous evaluation is used in all undergraduate courses.

INTRODUCTION TO THE FRENCH LANGUAGE AND CULTURE 178 (3 Lectures; 1 Tutorial; 1 Practical) [for students **without** French in Grade 12]

Introductory language studies; introduction to contemporary French culture on the basis of selected topics; study of elementary literary texts

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

INTERMEDIATE STUDY OF THE FRENCH LANGUAGE, LITERATURE AND CULTURE 188 (3 Lectures) [for students **with** French in Grade 12]

Intermediate language studies with particular emphasis on vocabulary; French and Francophone literary texts

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

CONTINUED STUDY OF THE FRENCH LANGUAGE, LITERATURE AND CULTURE 278 (3 Lectures; 1 Practical)

Continued language studies; basic concepts and principles of French as a foreign language; comparative cultural studies on the basis of selected topics; study of literary texts based on these topics.

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

ADVANCED STUDY OF THE FRENCH LANGUAGE, LITERATURE AND CULTURE 379 (3 Lectures; 1 Practical)

Advanced language studies; study of French texts (including hypertext and film) of particular relevance to the South African reality; comparative cultural studies with reference to professional applications

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Course: *Mandarin*

1. Mandarin is the official language of China.
2. Mandarin 178 is a module for beginners. No previous knowledge of Mandarin is required. The module is designed to provide basic intercultural communication skills. It enables students to

understand; speak; read; and, to a lesser degree, write contemporary Mandarin in everyday situations, which includes a basic knowledge of the present-day situation in China.

3. A system of continued assessment is used.

INTRODUCTION TO THE MANDARIN LANGUAGE AND THE CHINESE CULTURE 178 (3 Lectures; 1 Tutorial; 1 Practical)

Introductory language study, including phonetics; introduction to contemporary China based on a selection of topics

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

CONTINUED STUDY OF THE MANDARIN LANGUAGE AND CHINESE CULTURE 278

(3 Lectures; 1 Tutorial; 1 Practical)

Continued language study; basic concepts and principles of Mandarin as a foreign language; comparative study of China based on a selection of topics; study of texts on these topics. See

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

INTERMEDIARY STUDY OF THE MANDARIN LANGUAGE AND CHINESE CULTURE 379

(3 Lectures; 1 Practical)

Intermediary language study; Chinese characters; comparative contemporary 'country-knowledge' by means of themes; study of texts with regards to the former texts.

Credits: 48 SA Credits / 24 ECTS credits / 6 US credits

Department of Music

FULL YEAR (February - November)

PRACTICAL MUSIC STUDY

MAJOR INSTRUMENT: NON-ORCHESTRAL INSTRUMENT AND ACCOMPANIMENT 189

The establishment of a sound technical basis and musical principles; grasp of style; and ensemble in accompanied instruments and singing.

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

MINOR INSTRUMENT: KEYBOARD / ORCHESTRAL INSTRUMENT 174 (1 Lecture)

Credits: 12 SA Credits / 6 ECTS credits / 3 US credits

MINOR INSTRUMENT: SINGING / NON-ORCHESTRAL INSTRUMENT 184 (1 Lecture)

Establishment of technical skills in the chosen instrument or singing.

Credits: 12 SA Credits / 6 ECTS credits / 3 US credits

PRACTICAL MUSIC STUDY: EXTRA 196 (1 Lecture)

Notes:

1. The module Practical Music Study: *Extra* is offered to non-music students who register for instrumental music or voice as an extra subject, or as part-time students or as BDrum students who can take the first-year module as an elective.
2. There are two options for obtaining credits:
 - a) passing the examination at the standard of the major instrument; or
 - b) passing the examination at the standard of the minor instrument and successfully submitting two assignments of a music historical or music theoretical nature of which the contents must be decided in consultation with the Chair of the Department of Music.
3. Where no examination is taken, the student obtains no credits. Admission to Practical Music Study E is subject to selection.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

PRACTICAL MUSIC STUDY: PREPARATORY 171 (1 Lecture)

Basic technical skills in the chosen instrument or singing.

One or two of the following: Recorder, Guitar, Piano, Voice, Percussion

Prerequisite: Repertoire of an achievable degree of difficulty

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

MAJOR INSTRUMENT: KEYBOARD 278 (1 Lecture)

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: ORCHESTRAL INSTRUMENT 288 (1 Lecture)

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: SINGING 298 (1.5 Lectures)

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: NON-ORCHESTRAL INSTRUMENT 298 (1 Lecture)

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

NOTES ON THE ABOVE MENTIONED COURSES:

1. Keyboard and non-orchestral instruments take *Accompaniment 276*.
2. Orchestral instruments take *Orchestral Practice 286*.
3. Singers take *Language for Singers 294*.

MINOR INSTRUMENT: KEYBOARD / ORCHESTRAL INSTRUMENT 374 (1 Lecture)

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

MINOR INSTRUMENT: SINGING / NON-ORCHESTRAL INSTRUMENT 384 (1 Lecture)

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

NOTE ON THE ABOVE MENTIONED COURSES

1. Extension of basic technical skills of the chosen instrument or singing.

ACCOMPANIMENT 276 (1 Lecture)

Guidance with regard to practice – individual and in groups. Responsibility for one instrumentalist or singer.

Prerequisite: Accompaniment 276 is taken with Major instrument: Keyboard 278 or Major instrument: Non-orchestral instrument 289. A system of continuous assessment applies in Accompaniment.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

LANGUAGE FOR SINGERS 294 (1 Lecture)

Introductory language study relevant to singers.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

PRACTICAL MUSIC STUDY: PREPARATORY 271 (1 Lecture)

Foundation of technical skills of chosen instrument or singing.

One or two of the following: Recorder, Guitar, Piano, Voice, Percussion

Prerequisite: Repertoire of an achievable degree of difficulty

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

PERFORMANCE 318 and 387 (2 Lectures)

Public performing. A further development of technical and musical capacities with special emphasis on the development of the characteristics of solo performance and a stage personality, and also good chamber music playing where appropriate.

Credits for 318: 16 SA credits / 8 ECTS credits / 3 US credits

Credits for 387: 32 SA credits / 15 ECTS credits / 6 US credits

NOTES ON PERFORMANCE 318 AND 387

1. *Performance 318* is taken with *Performance 387*.
2. Keyboard and non-orchestral instruments take Accompaniment 376 and Chamber Music 379.
3. Orchestral instruments take *Orchestral Practice 386* and *Chamber Music 379*.
4. Singers take *Theatre Arts (Music) 394* and *Chamber Music 379*. If *Theatre Arts* is not offered in any particular year, *Subject Didactics 388* must be taken.
5. Admission to the Performance Route depends on selection.

MAJOR INSTRUMENT: KEYBOARD 378 (1 Lecture)

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: ORCHESTRAL INSTRUMENT 388 (1 Lecture)

Credits: 32 SA Credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: SINGING 398 (1 Lecture)

Credits: 32 SA Credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: NON-ORCHESTRAL INSTRUMENT 389 (1 Lecture)

Credits: 32 SA Credits / 15 ECTS credits / 6 US credits

The extension of already existing technical skills and music and stylistic understanding; attention to good chamber music where applicable.

Orchestral Instrument 388 is taken with *Orchestral Practice 386*.

ACCOMPANIMENT 376 (1 Lecture)

Guidance with regard to practice – individual and in groups; responsibility for two instrumentalists or singers.

Prerequisite: Admission to Accompaniment 376 for students taking it as an elective module takes place on the basis of selection.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

CHAMBER MUSIC 379 (2 Lectures)

Specialised guidance in the principles of chamber music.

Admission to *Chamber Music 379* for students taking it as an elective module takes place on the basis of selection.

Credits: 16 SA credits / 8 ECTS / 3 US credits

ORCHESTRAL PRACTICE 386 (2 Practicals)

Participation in all activities of one of the established ensembles of the Konservatorium.

A system of continuous assessment based on auditions, attendance, punctuality and discipline, individual contributions to group practice and a general impression mark will apply to *Orchestra Practice*.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

REPERTOIRE STUDY / ORCHESTRAL STUDY 377 (1 Lecture; 1 Practical)

Study of the standard repertoire of the chosen instrument.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

PRACTICAL MUSIC STUDY: EXTRA 396 (1 Lecture)

The same stipulations as for *Practical Music Study: Extra (E) 196* apply here.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

PERFORMANCE 418 AND 487 (2 Lectures)

Public performing; a further development of technical and musical capacities with special emphasis on the development of the characteristics of solo performance and a stage personality, and also good chamber music playing where appropriate.

Credits for 418: 16 SA credits / 8 ECTS credits / 3 US credits

Credits for 487: 32 SA credits / 15 ECTS credits / 6 US credits

NOTES ON PERFORMANCE 418 AND 487:

1. Keyboard and non-orchestral instruments take *Accompaniment 476*.
2. Orchestral instruments take *Orchestral Practice 486* and *Chamber Music 379*.
3. Singers take *Theatre Arts (Music) 494* and *Chamber Music 379*. If *Theatre Arts* is not offered in any particular year, *Subject Didactics 488* must be taken.
4. Admission to the Performance Route depends on selection.

MAJOR INSTRUMENT: KEYBOARD AND NON-ORCHESTRAL INSTRUMENT 478 (1 Lecture)

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: ORCHESTRAL INSTRUMENT 488 (1 Lecture)

Credits: 32 SA Credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: SINGING 498 (1 Lecture)

Credits: 32 SA Credits / 15 ECTS credits / 6 US credits

MAJOR INSTRUMENT: NON-ORCHESTRAL INSTRUMENT 489 (1 Lecture)

Credits: 32 SA Credits / 15 ECTS credits / 6 US credits

The extension of already existing technical skills and music and stylistic understanding; attention to good chamber music playing where applicable.

MINOR INSTRUMENT: KEYBOARD / ORCHESTRA INSTRUMENT 474 (1 Lecture)

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

MINOR INSTRUMENT: SINGING / NON-ORCHESTRAL INSTRUMENT 484 (1 Lecture)

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

NOTE ON THE ABOVE MENTIONED COURSES

1. Extension of basic technical skills of the chosen instrument or singing.

THEATRE ARTS (MUSIC) 494 (2 Lectures)

Aspects of stage performance for singers:

1. Appearance on the opera and concert stage.
2. Aspects of libretto.
3. Aspects of stage management and lighting.

ACCOMPANIMENT 476 (1 Lecture)

Guidance with regard to the practice – individual and in groups; responsibility for two instrumentalists or singers.

Admission to *Chamber Music 379* for students taking it as an elective module takes place on the basis of selection.

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

CHAMBER MUSIC 479 (2 Lectures)

Specialised guidance in the further development of the principles of chamber music playing.

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

REPERTOIRE STUDY / ORCHESTRAL STUDY 477 (1 Lecture; 1 Practical)

Study of the standard repertoire: Late Romantic, Modern and Contemporary; practical work.

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

PRACTICAL MUSIC STUDY: EXTRA 496 (1 Lecture)

The same stipulations as for Practical Music Study: Extra (E) 196 apply here.

Credits: 24 SA Credits / 12 ECTS credits / 6 US credits

FIRST SEMESTER (February - June)

BASIC CONDUCTING 314 (1 Lecture; 1 Practical)

Conducting practice of symphonic wind orchestra or symphony orchestra; basic conducting techniques; reading and analysis of scores; study of standard repertoire: Baroque, Classical and Early Romantic; practical work.

Credits: 6 SA credits / 3 ECTS credits / 3 US credits

ADVANCED CONDUCTING 414 (1 Lecture; 1 Practical)

Conducting practice of symphonic wind orchestra or symphony orchestra; advanced conducting techniques; reading and analysis of scores; study of standard repertoire: Late Romantic, Modern and Contemporary; practical work.

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

SECOND SEMESTER (July - November)

BASIC CONDUCTING 344 (1 Lecture; 1 Practical)

Conducting practice of symphonic wind orchestra or symphony orchestra; basic conducting techniques; reading and analysis of scores; study of standard repertoire: Baroque, Classical and Early Romantic; practical work.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

ADVANCED CONDUCTING 444 (1 Lecture; 1 Practical)

Conducting practice of symphonic wind orchestra or symphony orchestra; advanced conducting techniques; reading and analysis of scores; study of standard repertoire: Late Romantic, Modern and Contemporary; practical work.

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

Department of Sociology

SECOND SEMESTER (July – November)

SOCIAL-ANTHROPOLOGICAL PERSPECTIVES ON SOCIETY AND CULTURE 162 (1Lecture; 0.5 Tutorial)

The scope and methods of anthropology; cultures, ethnocentrism and cultural relativism; racism and the racial paradigm; comparative perspectives on kinship, politics, economics, rituals and religion; peasants, urbanisation and cities; global relations and boundaries; anthropological perspectives on South Africa.

Credits: 6 SA credits / 3 ECTS credits / 3 US credits

Faculty of Agrisciences

Department of Agronomy

FIRST SEMESTER (February – June)

INTRODUCTION TO CROP PRODUCTION 214 (3 Lectures; 3 Practicals)

Plant-environment interactions; plant propagation; absorption and translocation of minerals; plant hormones

Presented by the Departments of Agronomy; Botany; Zoology; Horticultural Science; and Viticulture and Oenology

Prerequisite modules: Biology 144, 154

Co-requisite module: Biology 124

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

Department of Conservation Ecology

FIRST SEMESTER (February – June)

CONSERVING NATURE 212 (2Lectures; 1 Practical)

What is biodiversity; a brief history of biodiversity; how many species are there; global patterns in biodiversity; human impacts and species extinctions; maintaining biodiversity, conventions, sustainable use and approaches to conservation.

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

BIOME ECOLOGY 314 (3 Lectures; 3 Practicals)

Introduction to biomes; ecology of tropical and afro-montane forests, woodlands, savannas, treeless vegetation types; wetlands; animal diversity/habitat; interactions; patterns of endemism; biological invasion and its management.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

NATURE CONSERVATION MANAGEMENT 414 (3 Lectures; 3 Practicals)

Conservation in utilised landscapes; conservation planning; disturbance ecology; grazing; harvesting; ecological monitoring; restoration ecology; current issues in biodiversity and resource conservation, for example: invasive species, climate change; genetically modified organisms; pollution.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

CONSERVATION CASE STUDIES AND RELATED GUIDANCE ACTIVITIES 424 (3 Lectures; 3 Practicals)

Decision-making in the face of uncertainty: managing for current climate change; the planning and execution of conservation-based research; sustainable harvesting models and population viability analysis; priority area selection and design; management of alien invasive/WFW/Wetlands; case studies in conservation research.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

SECOND SEMESTER (July – November)

CONSERVATION CENSUSING 244 (3 Lectures; 3 Practicals)

Monitoring and survey techniques for major plant and animal taxa; plant/animal/habitat relationships; indices of species richness and diversity; indices of community similarity and differences.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

INTRODUCTION TO CONSERVATION MANAGEMENT 344 (3 Lectures; 3 Practicals)

History of man and his environment; history and philosophy of conservation; environmental ethics; participation and conflict resolution; cultural conservation; government and community influences on conservation; environmental legislation; conservation management problems; land-use and hydrology; fire ecology and management; ecotourism and recreation.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

CONSERVATION PLAN/RESEARCH PROJECT 448 (6 Lectures; 6 Practicals)

Preparation of a comprehensive management plan for an area, community or species, based on fieldwork conducted during the university vacations.

Prerequisite modules: Conservation Ecology 314 or 344

Co-requisite module: Conservation Ecology 414
Credits: 16 SA credits / 8 ECTS credits / 4 US credits

Department of Entomology

SECOND SEMESTER (July - November)

INSECT CONSERVATION ECOLOGY 464 (3 Lectures; 3 Practicals)

Natural and disturbed ecosystems in terms of insect diversity and numbers; interactions between insects and other organisms; pollination ecology; insect conservation; threats, perceptions, species numbers and diversity, habitat destruction, recovery and conservation, exterminations.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

Department of Forest Science

FIRST SEMESTER (February – June)

FOREST MENSURATION 214 (3 Lectures; 3 Practicals)

Production and of volume and taper equations; sampling techniques and their application in the forest inventory; introduction to data processing and computer programming. Site evaluation; production of site index equations; growing stock and stand density.

Prerequisite modules: Mathematics (Bio) 124

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

SUSTAINABILITY 414 (3 Lectures; 3 Practicals)

Objectives of and factors that affect silvicultural practices; effects of silvicultural practices and environmental factors on tree growth and timber quality. Prevention and control of factors that cause damage to plantations. Forestry practices that promote environmental, socio-political and economic sustainability, with emphasis on plantation forestry. A field school study tour during the final year is a compulsory part of this module. *(Subject to continuous assessment)*

Prerequisite modules: Forest Science 354

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

FORESTRY PLANNING 424 (3 Lectures; 3 Practicals)

Principles of business planning; the institutional and economic environment of the forestry industry; organisation of the industry; planning techniques; classification and subdivision of land; annual planning of operations; scheduling of logging operations. Capital investment and interest; computation of interest; financial analysis; inflation and real price change; land valuation; valuation of plantations; optimal financial rotations; support programmes and leasing schemes.

(Subject to continuous assessment)

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

ROADS AND TRANSPORT 434 (3 Lectures; 3 Practicals)

Introduction to secondary timber transport. Terminology and legislation. Vehicle selection. Transport systems. Tactical and operational maintenance and replacement of equipment and vehicles. Interactions between timber harvesting, the road and secondary timber transport Introduction to surveying, road material and materials testing. Levels of planning. Forest and network planning and sequence of access development., influencing factors and road replacement techniques. Road construction techniques. Road maintenance and drainage. The impacts of roads on the environment and forest certification. Road network management systems.

(Subject to continuous assessment)

Prerequisite modules: Forest Science 364

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

SECOND SEMESTER (July – November)

INTRODUCTION 142 (1.5 Lectures; 1.5 Practicals)

Taxonomy and morphology of plants as dealt with in the first year of study as an introduction to the classification of the most important commercial tree species as well as the identification of ornamental species with the aid of keys; silvicultural systems; determination of diameter, height, volume, form and density of trees, stands of timber and forest products; overview and introduction to forest engineering; the industry locally and internationally; structure and phases of forest engineering; stages and states of production and conversion; terminology; the study and analysis of the factors affecting productivity and production. One week of practical work in September is to be satisfactorily completed as part of this module. *(Subject to continuous assessment)*

Credits: 8 SA credits / 4 ECTS credits / 3 US credits

INTRODUCTION TO COMMUNITY FORESTRY 244 (3 Lectures; 3 Practicals)

Background to community forestry; knowledge, skills and attitudes for successful community foresters; interaction with communities; participation, facilitation and participation methods; the new forestry professional; examples of community forestry in South Africa; consultation with communities; decision-making; cost-benefit analysis; land use planning; multiple forest use and management; community involvement in forest management; ownership and control; value of forest resources for income generation; land ownership and its impact on forestry; systems for community ownership; policy and legislation.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

APPLIED COMMUNITY FORESTRY 344 (3 Lectures; 3 Practicals)

Contemporary issues in community forestry; local and international case studies of community forestry; evaluation of community forestry interventions. Definitions and terms in agroforestry;

appropriate silviculture systems; ecological interactions in agroforestry; choice and use of indigenous trees; tree nurseries for agroforestry; agroforestry planning and problem analysis; land use planning; counselling design and counselling development; agroforestry in areas with dry or temperate climates; permaculture; interaction between agroforestry and urban forestry; non-timber forest products from natural and established forests; recreation and eco-tourism.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

STAND ESTABLISHMENT 354 (3 Lectures; 3 Practicals)

Seed Treatment; nursery practice; plant quality; mycorrhizal fungi; tree breeding methods of plantation establishment; environmental factors that influence tree growth in plantations; silvicultural characteristics of the most important commercial tree species; species site compatibility. One week of practical work (soil and silvicultural aspects) in September to be satisfactorily completed as part of this module.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

TIMBER HARVESTING 364 (3 Lectures; 3 Practicals)

Specialisation in timber harvesting techniques. Harvesting equipment and systems. Evaluation and selection of systems. Logging mechanics. Introduction to operational analysis and logistics. Harvest planning (operational and tactical). Impact of harvesting on the environment. Equipment maintenance and management. Utilisation of biomass. Introduction to work and time study. Physiological principles of muscular work, nervous movement control and energy turnover. Nutrition and work performance, workstation design, occupational health noise, vibration, heat and dust and hazardous substances. Worker health and legislation; international standards; occupational injuries, night work and shift work, work ethics; ergonomics and ergonomic evaluation of machines and labour. One week of practical work in April to be satisfactorily completed as part of this module.

(Subject to continuous assessment)

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

RECONNAISSANCE OF THE ENVIRONMENT (INDUSTRIAL FORESTRY) 444 (3 Lectures; 3 Practicals)

A study of the total industry of a chosen or allocated management unit in the forest industry; this includes the collection of data on the following aspects: climate, soil, topography, growing stock, age classes, volumes, areas, tree species, products, markets, infrastructure, equipment, protection, ownership, organisation and staff; a visit of approximately three weeks to the management unit is essential.

(No examination, class mark serves as final mark)

Prerequisite modules: Forest Science 414, 424, 434

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

MANAGEMENT PLAN 458 (3 Lectures; 3 Practicals)

Data as described in Forest Science 444 are analysed, processed and used for yield forecasting, yield regulation, and planning of financial, silvicultural, harvesting, roads and staff matters; this is used for the compilation of a comprehensive Management Plan which must be handed in.

(No examination, class mark serves as final mark)

Co-requisite module: Forest Science 444

Credits: 16 SA credits / 8 ECTS / 4 US credits

Department of Genetics

FULL YEAR (February – November)

INTRODUCTORY BIOMETRY 274 (3 Lectures)

Methods of tabulation and graphical representation of data; descriptive measures; the elementary principles of distributions, sampling and estimation; correlation and regression; contingency tables and chi square tests; treatment and experimental design; analysis of variance design, standard errors and hypothesis testing; confidence intervals.

Prerequisite modules: Mathematics (Bio) B164 or Mathematics C174

Credits: 16 SA credits / 8 ECTS credits / 3 US credits

Department of Wood Science

FIRST SEMESTER (February – June)

WOOD PROCESSING 114 (3 Lectures; 3 Practicals)

Introduction to forestry; wood products industry, processes, products, markets and forest policy issues affecting the wood industry

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

WOOD CHEMISTRY AND PRESERVATION 214 (3 Lectures; 3 Practicals)

Introduction to the chemistry relating to wood and wood products; chemical composition (lignin, cellulose, hemicellulose, extractives) and chemical utilisation of wood; chemical modification of wood; biological degradation of lignocellulosics; wood preservatives and pressure impregnation procedures; environmental aspects of preservatives and products.

Co-requisite module: Chemistry 114, 154

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

MECHANICS OF WOOD PRODUCTS 224 (3 Lectures; 3 Practicals)

Introduction to the strength of materials with emphasis on the elastic properties and ultimate strength of wood and wood products.

Co-requisite module: Physics (Eng) 154

Prerequisite modules: Engineering Mathematics 115, 145

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

WOOD PRODUCTS MANUFACTURING 314 (3 Lectures; 3 Practicals)

Basic wood products manufacturing including primary and secondary manufacturing; focus on production of solid wood (industrial or furniture wood) in sawmills and further processing in secondary industries; introduction to computer-based equipment.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

WOOD ADHESIVES AND COATINGS 324 (3 Lectures; 3 Practicals)

Structures, types and characteristics of adhesives, structure types and functional mechanisms of wood finishes; adhesion.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

SECOND SEMESTER (July – November)

WOOD ANATOMY AND IDENTIFICATION 144 (3 Lectures; 3 Practicals)

Introduction to tree growth; macroscopic and microscopic anatomy and identification of softwoods and hardwoods; description of cell wall ultra-structure, wood variability and wood quality.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

APPLIED MECHANICS OF MATERIALS 244 (3 Lectures; 3 Practicals)

Beam analysis, shaft analysis, columns; stress/strain transformation; thin-walled pressure vessels; material strength failure, criteria, fatigue, design and sizing; ISO standards

Prerequisite module: Wood Products Science 224

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

MACHINE COMPONENTS 254 (3 Lectures; 3 Practicals)

An introduction to the design of common machine components such as threaded fasteners, joints and jointing methods, springs, lubrication of wood machinery and sliding bearings, rolling bearings, spur gears, shaft design, clutches and brakes, power transmission

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

WOOD PHYSICS AND DRYING 264 (3 Lectures; 3 Practicals)

Wood Physics: physics of water; density, electrical properties, moisture content, sorption, swelling and shrinkage of wood.

Wood Drying: reasons for; physical elements of drying; drying methods; dry kiln types, schedules; defects.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

PRINCIPLES OF WOOD CUTTING AND TOOLING 344 (3 Lectures; 3 Practicals)

Wood cutting fundamentals, chip formation, cutting conditions, cutting edge maintenance, sawing, planning, moulding, veneer cutting, chipping, turning.

Prerequisite modules: Wood Products Science 224

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

FURNITURE DESIGN AND CONSTRUCTION (I) 354 (3 Lectures; 3 Practicals)

The theory and practice of modern construction techniques used in the manufacture of furniture and cabinets.

Prerequisite modules: Wood Products Science 314; Wood Products Science 244

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

FURNITURE DESIGN AND CONSTRUCTION (II) 444 (3 Lectures; 3 Practicals)

Advanced wood manufacturing techniques for producing furniture and cabinets including the design, production and use of jigs and fixtures for automated processing.

Prerequisite module: Wood Products Science 354

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

COMPOSITE PRODUCTS 454 (3 Lectures; 3 Practicals)

Physical, chemical and mechanical variables involved in cold, hot and non-conventional adhesive bonding of wood: preparation and characteristics of adhesives; plywood, composite wood panels, hardboard, medium density fibreboard and laminated wood manufacturing processes; important physical and chemical properties of products; methods of pre-finishing.

(Subject to continuous assessment)

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

WOOD FINISHING 464 (3 Lectures; 3 Practicals)

Introduction to polymeric coatings and finishes used in the wood products industry; examines surface preparation, application equipment and properties of various coatings.

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

Faculty of Science

Biological Sciences

FIRST SEMESTER (February - June)

CELL BIOLOGY 124 (3 Lectures; 3 Practicals)

Origin and early history of life; cytology; cell chemistry; biological membranes and cellular respiration; fixation, transfer and expression of genetic information; evolution.

Presented by the Departments of Biochemistry; Botany; Zoology; and Genetics

Credits: 16 SA credits / 8 ECTS credits / 4 US credits

SECOND SEMESTER (July - November)

BIODIVERSITY AND ECOLOGY 144 (3 Lectures; 3 Practicals)

Classification of organisms; diversity of micro-organisms, plants and animals; ecological principles and global changes.

Presented by the Departments of Botany; Zoology; and Microbiology

Co-requisite module: **Biology 124 and Chemistry 114 (or Chemistry B134) and Chemistry 154**

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

FUNCTIONAL BIOLOGY 154 (3 Lectures; 3 Practicals)

Plant anatomy and morphology; photosynthesis; water relations and phloem transport; functional biology of animals; introduction to biotechnology.

Presented by the Departments Botany and Zoology

Co-requisite module: **Biology 142 and (Chemistry 114 (or Chemistry B134) and Chemistry 154)**

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

Department of Chemistry and Polymer Science

SECOND SEMESTER (July - November)

INORGANIC CHEMISTRY 244 (3 Lectures; 3 Practicals)

Periodic trends; structure and bonding molecules; structure and bonding solid material; chemistry in solutions; main group elements; coordination chemistry: introduction, ligand types, nomenclature; isomerism of coordinate compounds; various geometries; forming constants.

Prerequisite pass modules: **Chemistry 114 or B134**

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

ANALYTICAL CHEMISTRY 354 (3 Lectures; 3 Practicals)

Advanced instrumental analysis; molecular spectroscopy: overview of basic principles; ¹H and ¹³C nuclear magnetic resonance spectroscopy and molecular structure; atomic spectroscopy: principles of absorption and emission spectroscopy; calibration in instrumental analysis; introduction to electrochemical techniques; separation science with emphasis on chromatographic methods.

Atomic spectroscopy: Principles of absorption and emission spectroscopy. Calibration in

Prerequisite modules: **Chemistry 324**

Co-requisite module: **Chemistry 344**

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

APPLIED CHEMISTRY

ANALYTICAL POLYMER SCIENCE 344 (3 Lectures; 3 Practicals)

Introduction to polymer structure and morphology; classification of polymers, polymers in solution, molecular weight and molecular weight distributions, structure/property relationship of polymers; introduction to polymer analysis and characterization: measurement of polymer molecular weights, spectroscopic techniques for polymer analysis; thermal analysis, physical testing of polymers; measurement of crystallinity in polymers.

Practicals: laboratory work, seminars and tasks

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

ENVIRONMENTAL ANALYSIS 354 (3 Lectures; 3 Practicals)

Environmental problems and analysis; bio-analysis; atmospheric chemistry; aquatic chemistry. Project.

Prerequisite modules: **Chemistry 214, 224, 244, 254**

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

Department of Mathematics

FIRST SEMESTER (February - June)

MATHEMATICS FOR BIOLOGICAL SCIENCES 124 (4 Lectures; 2 Tutorials)

Functions and their inverses; polynomial functions, rational functions, power functions, exponential functions, trigonometric functions; solution of trigonometrical equations; composition of functions; limits; definition of the derivative of a function; continuity; rules of differentiation, certain formulae; higher order derivatives; implicit differentiation; applications of differentiation: processes of growth and decay, graph sketching, optimization, differentials; indefinite integrals; techniques of integration: substitution, decomposition into partial fractions, integration by parts; the definite integral as the limit of a sum; the fundamental theorem for differentiation and integration; definite integrals as areas; solving and using simple differential equations.

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

SECOND SEMESTER (July - November)

DISCRETE MATHEMATICS 344 (3 Lecture; 3 Tutorials)

Discrete Mathematics, or "Concrete Mathematics", as it is called in a famous book, deals with concrete objects that are inherently discrete, such as permutations, sets, trees and words; emphasis will be placed on enumeration techniques; a modern well-rounded introduction to propositional logic, first-order logics and elementary proof theory will also be presented.

PP Mathematics 214, 244 or equivalent modules

Credits: **16 SA credits / 8 ECTS credits / 4 US credits**

Department of Physics

FULL YEAR (February - November)

PHYSICS FOR BIOLOGICAL SCIENCES 178 (3 Lectures; 3 Practicals)

Mechanics; thermodynamics; waves and oscillation; optics; electricity and magnetism; atomic physics; radioactivity.

The language specification is subject to timetable restrictions

Credits: 32 SA credits / 15 ECTS credits / 6 US credits

PHYSICS FOR ENGINEERING STUDENTS 113 (3 Lectures; 1.5 Tutorials)

Crystalline and amorphous solids; crystal structures, defects and applications, oscillatory motion, introduction to wave motion, superposition and standing waves, sound waves, Doppler effect, wave optics (diffraction, interference, polarisation), dual nature of waves and particles, introduction of quantum mechanics, atomic structure and the periodic table, models for electrical conduction, effect of temperature on conductivity, semiconductors and applications (diode, transistor), special relativity.

Credits: 11 SA credits / 5 ECTS credits / 3 US credits

Faculty of Economic and Management Sciences

Department of Economics

FULL YEAR (February - November)

ECONOMICS 178 (3 Lectures; 1 Tutorial)

The economic problem: scarcity, priorities and contingency costs; introductory macro-economics: theory of determination of income and production; the foreign sector and monetary economics; national accounts and micro-economic data; Introductory micro-economics: demand and supply and the determination of equilibrium in goods markets; production and cost theory; market structures and theory of enterprise; market failures and the role of the authorities; Economic history: trade capitalism, economic imperialism, economic liberalism and the mixed economy. The South African economy: history and characteristics.

Credits: 24 SA credits / 12 ECTS credits / 6 US credits

Department of Industrial Psychology

SECOND SEMESTER (July - November)

INDUSTRIAL PSYCHOLOGY (SPECIAL) 354 (2 Lectures; 1 Seminar)

Lectures attended simultaneously by students in Engineering, Agrisciences, and Consumer Science.

Introduction to Industrial Psychology, man as worker; human resources management; recruitment; selection, induction, training and development; performance assessment; remuneration management; Labour relations; field of study; organised labour; role of employers; labour law; collective bargaining; organisational psychology; communication; role of behaviour; motivation; decision-making; group dynamics; strategic management; leadership; innovation management.

Credits: 12 SA credits / 6 ECTS credits / 3 US credits

Department of Statistics and Actuarial Science

FULL YEAR (February - November)

INTRODUCTION TO STATISTICS 186 (3 Lectures; 1 Tutorial)

Mathematical background: Linear programming; introduction to differentiation and integration with simple applications; descriptive statistics: various data types; graphical representation of data, descriptive measures of location and spread: mean, median, mode, variance, standard deviation, percentiles; probability theory and distribution theory: basic definitions with respect to probabilities; conditional probability; probability rules and probability trees; general aspects of discrete and continuous probability distributions; important specific discrete distributions: binomial, hypergeometric, poisson, uniform important specific continuous distributions: normal, uniform; normal approximation of the binomial distribution; sampling and sampling distributions: population and sample; random, stratified random and cluster sampling; selection with probably proportional to size; sampling distribution of the mean; the central limit theorem; results of the sampling distribution of a sample proportion, the difference between two means, the difference between two proportions; Statistical inference: general theory of confidence intervals and hypothesis tests for one and two means of proportions; statistical inference: general theory of confidence intervals and hypothesis testing; confidence intervals and hypothesis tests for one or two means of proportions; application of linear models: simple linear regression; the correlation coefficient hypothesis test for correlation coefficient; multiple linear regression; the model and interpretation of computer output; 1-way analysis of variance: the model and interpretation of computer output; time series analysis: the components of a time series; prediction with moving averages and exponential smoothing

Remarks:

The interpretation of computer output obtained by means of statistical programmes is emphasised throughout. In this regard special attention is given to the spreadsheet Excel.

Students who plan to carry on with statistics in their second year and third year, must pass statistics 186 in their first year. A student who passes Statistical Methods 176 in his first year will be allowed to continue with Statistics in the second year, provided a final mark of at least 60 was obtained. Furthermore, all students who continue with Statistics in second year must also do a special module in Mathematics in their second year. The latter will be offered from 2005.

Credits: 18 SA credits / 9 ECTS credits / 6 US credits